

RAW SEQUENCE LISTING

DATE: 10/17/2001

PATENT APPLICATION: US/09/931,732A

TIME: 15:21:11

Input Set : N:\Crf3\10032001\I931732.raw

Output Set: N:\CRF3\10172001\I931732A.raw

1 <110> APPLICANT: Brown, Bob D.
 2 Riley, Timothy A.
 3 <120> TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES COMPRISING
 4 UNIVERSAL AND/OR DEGENERATE BASES
 5 <130> FILE REFERENCE: OASBIO.001C1
 6 <140> CURRENT APPLICATION NUMBER: US/09/931,732A
 7 <141> CURRENT FILING DATE: 2001-08-16
 8 <150> PRIOR APPLICATION NUMBER: PCT/US00/09293
 9 <151> PRIOR FILING DATE: 2000-04-07
 10 <150> PRIOR APPLICATION NUMBER: US 60/128,377
 11 <151> PRIOR FILING DATE: 1999-04-08
 12 <160> NUMBER OF SEQ ID NOS: 30
 13 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 18
 17 <212> TYPE: DNA
 18 <213> ORGANISM: Artificial Sequence
 19 <220> FEATURE:
 20 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
 21 <221> NAME/KEY: misc_feature
 22 <222> LOCATION: 1-6, 13-18
 23 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base capable
 24 of specific recognition of an RNA target base
 25 including, but not limited to, a, c, g, t, u,
 26 propynyl C, propynyl U, diaminopurine, 5-MeC,
 W--> 27 7-deaza A and 7-deaza G) (223) response for a
 28 <221> NAME/KEY: misc_feature MAXIMUM 4
 29 <222> LOCATION: 7-12 lines
 30 <223> OTHER INFORMATION: b = (Universal or degenerate base, invalid
 31 <400> SEQUENCE: 1
 W--> 32 nnnnnnbbbb bnnnnnnn Per sequence rules, ¹⁸
 34 <210> SEQ ID NO: 2 "b" can only be g, c, t, or u
 35 <211> LENGTH: 18
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Artificial Sequence
 38 <220> FEATURE:
 39 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
 40 <221> NAME/KEY: misc_feature
 41 <222> LOCATION: 1-6 13-18
 42 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base capable
 43 of specific recognition of an RNA target base
 44 including, but not limited to, a, c, g, t, u,
 45 propynyl C, propynyl U, diaminopurine, 5-MeC,
 W--> 46 7-deaza A and 7-deaza G . 4 lines MAXIMUM
 47 <221> NAME/KEY: misc_feature
 48 <222> LOCATION: 7-12
 49 <223> OTHER INFORMATION: b = (Universal or degenerate base) . 2d line as above

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50 <400> SEQUENCE: 2 18
W--> 51 nnnnnnnbbbb bbnnnnnn
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 18
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
59 <221> NAME/KEY: misc_feature
60 <222> LOCATION: 1-6, 13-18
61 <223> OTHER INFORMATION: Natural or non-naturally occurring base capable of
62 specific recognition of an RNA target base
63 including, but not limited to, a, c, g, t, u,
64 propynyl C, propynyl U, diaminopurine, 5-MeC,
W--> 65 7-deaza A and 7-deaza G
66 <221> NAME/KEY: misc_feature
67 <222> LOCATION: 7-12
68 <223> OTHER INFORMATION: b = (universal or degenerate base)
69 <400> SEQUENCE: 3 18
W--> 70 nnnnnnnbbbb bbnnnnnn
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 18
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
78 <221> NAME/KEY: misc_feature
79 <222> LOCATION: 1-6, 13-18
80 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base capable
81 of specific recognition of an RNA target base
82 including, but not limited to, a, c, g, t, u,
83 propynyl C, propynyl U, diaminopurine, 5-MeC,
W--> 84 7-deaza A and 7-deaza G
85 <221> NAME/KEY: misc_feature
86 <222> LOCATION: 7-12
87 <223> OTHER INFORMATION: b = (Universal or degenerate base)
88 <400> SEQUENCE: 4 18
W--> 89 nnnnnnnbbbb bbnnnnnn
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 18
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
97 <221> NAME/KEY: misc_feature
98 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
99 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base capable
100 of specific recognition of an RNA target base
101 including, but not limited to, a, c, g, t, u,

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102 propynyl C, ~~propynyl~~ U, diaminopurine, 5-MeC,
W--> 103 7-deaza A and 7-deaza G
104 <221> NAME/KEY: misc_feature
105 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
106 <223> OTHER INFORMATION: b = Universal or degenerate base
107 <400> SEQUENCE: 5
108 nnnbnnbbnb nbnbnnbn 18
110 <210> SEQ ID NO: 6
111 <211> LENGTH: 18
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
118 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base capable
119 of specific recognition of an RNA target base
120 including, but not limited to, a, c, g, t, u,
121 propynyl C, ~~propynyl~~ U, diaminopurine, 5-MeC,
W--> 122 7-deaza A and 7-deaza G
123 <221> NAME/KEY: misc_feature
124 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
125 <223> OTHER INFORMATION: b = Universal or degenerate base
126 <400> SEQUENCE: 6
127 nnnbnnbbnb nbnbnnbn 18
129 <210> SEQ ID NO: 7
130 <211> LENGTH: 18
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
135 <221> NAME/KEY: misc_feature
136 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
137 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base capable
138 of specific recognition of an RNA target base
139 including, but not limited to, a, c, g, t, u,
140 propynyl C, ~~propynyl~~ U, diaminopurine, 5-MeC,
W--> 141 7-deaza A and 7-deaza G
142 <221> NAME/KEY: misc_feature
143 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
144 <223> OTHER INFORMATION: b = Universal or degenerate base
145 <400> SEQUENCE: 7
146 nnnbnnbbnb nbnbnnbn 18
148 <210> SEQ ID NO: 8
149 <211> LENGTH: 18
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Synthetic oligonucleotide primers

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Input Set : N:\Crf3\10032001\I931732.raw

Output Set: N:\CRF3\10172001\I931732A.raw

154 <221> NAME/KEY: misc_feature
155 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
156 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base capable
157 of specific recognition of an RNA target base
158 including, but not limited to, a, c, g, t, u,
159 propynyl C, propynyl U, diaminopurine, 5-MeC,
W--> 160 7-deaza A and 7-deaza G
161 <221> NAME/KEY: misc_feature
162 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
163 <223> OTHER INFORMATION: b = Universal or degenerate base
164 <400> SEQUENCE: 8
W--> 165 nnnbnnbbnb nbnbnbnbn 18
167 <210> SEQ ID NO: 9
168 <211> LENGTH: 18
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
175 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base capable
176 of specific recognition of an RNA target base
177 including, but not limited to, a, c, g, t, u,
178 propynyl C, propynyl U, diaminopurine, 5-MeC,
W--> 179 7-deaza A and 7-deaza G
180 <221> NAME/KEY: misc_feature
181 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
182 <223> OTHER INFORMATION: b = Universal or degenerate base
183 <400> SEQUENCE: 9
W--> 184 nnnbnnbbnb nbnbnbnbn 18
186 <210> SEQ ID NO: 10
187 <211> LENGTH: 18
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
194 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base capable
195 of specific recognition of an RNA target base
196 including, but not limited to, a, c, g, t, u,
197 propynyl C, propynyl U, diaminopurine, 5-MeC,
W--> 198 7-deaza A and 7-deaza G
199 <221> NAME/KEY: misc_feature
200 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
201 <223> OTHER INFORMATION: b = Universal or degenerate base
202 <400> SEQUENCE: 10
W--> 203 nnnbnnbbnb nbnbnbnbn 18
205 <210> SEQ ID NO: 11

RAW SEQUENCE LISTING

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Input Set : N:\Crif3\10032001\I931732.raw

Output Set: N:\CRF3\10172001\I931732A.raw

206 <211> LENGTH: 18
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
211 <221> NAME/KEY: misc_feature
212 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
213 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base capable
214 of specific recognition of an RNA target base
215 including, but not limited to, a, c, g, t, u,
216 propynyl C, propynyl U, diaminopurine, 5-MeC,
W--> 217 7-deaza A and 7-deaza G
218 <221> NAME/KEY: misc_feature
219 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
220 <223> OTHER INFORMATION: b = Universal or degenerate base
221 <400> SEQUENCE: 11
W--> 222 nnnnbnnbbnb nbnbnbn
224 <210> SEQ ID NO: 12
225 <211> LENGTH: 22
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
230 <400> SEQUENCE: 12
231 cgaaattaaa tcgactcact at 22
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 80
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
239 <400> SEQUENCE: 13
240 caggcccagc agcagcagca gcagcagcat ggtgggcgaa ttgcgattc gaagccctat 60
241 agtgagtcgt attaatttcg 80
243 <210> SEQ ID NO: 14
244 <211> LENGTH: 22
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
249 <400> SEQUENCE: 14
250 ggttctctctc ctcaactggg at 22
252 <210> SEQ ID NO: 15
253 <211> LENGTH: 76
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
258 <400> SEQUENCE: 15

Please correct
this error in
subsequent
sequences.
18

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/931,732A

DATE: 10/17/2001

TIME: 15:21:12

Input Set : N:\Crf3\10032001\I931732.raw

Output Set: N:\CRF3\10172001\I931732A.raw

L:27 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
 L:46 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
 L:65 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
 L:84 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
 L:103 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
 L:122 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
 L:141 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:160 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
 L:179 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
 L:198 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
 L:217 M:259 W: Allowed number of lines exceeded, <223> Other Information:
 L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
 L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
 L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30